

Claim 11. (New) The loader of claim 9, wherein the driving apparatus is provided within a space formed by a front cover and a wall for driving apparatus.

Claim 12. (New) The loader of claim 9, wherein the cover and the door being unified within the loader moves vertically.

Claim 13. (New) The loader of claim 9, wherein the container mounted on the stage approaches the door horizontally.

Claim 14. (New) The loader of claim 9, wherein the unifying means for unifying the cover and the door comprises:

a pin to be inserted in a hole formed in a protrusion arranged on outside of the cover;

another pin to be inserted in another hole formed in the door; and

a driving mechanism for simultaneously moving both of the pin and the another pin to unify the cover and the door.

Claim 15. (New) The loader of claim 9, which further comprises a driving device for causing the container mounted on the stage to approach to the door.

Claim 16. (New) A container for receiving and transporting the dust free article therein and to be mounted on a loader which is provided with an opening portion disposed in a low cleanliness room in border location between a high cleanliness room and the low cleanliness room and a door for opening and closing the opening portion, which comprises:

an opening port through which the dust free article is transported between an inside of the container and the high cleanliness room;

a cover which covers the opening port and is unified with the door of the loader and then moved within the loader to open and close the opening portion; and

a fixing means for fixing the cover to the opening port when the dust free article is enclosed in the container for transportation.

cl. 7
Claim 17. (New) The container of claim 16, wherein the cover of the container, unified with the door of the loader within the loader, moves vertically.

cl. 8
Claim 18. (New) The container of claim 16, wherein an angle formed by an outward normal line of a surface on which the opening port is closely contacted with the cover and a descending direction of the cover unified with the door of the loader, forms an acute angle.

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Claim 19. (New) The container of claim 16, which further comprises a sealing material for closing both of the cover and the opening port.

cl. 10
Claim 20. (New) The container of claim 16, which further comprises a positioning means to position the container in relation to the loader when the container is mounted on the loader.

cl. 11
Claim 21. (New) The container of claim 16, which further comprises a handle to support the container when the container is transported.

cl. 12
Claim 22. (New) The container of claim 16, which further comprises a protrusion formed on an outer portion of the cover, the protrusion having a hole to which a pin is inserted for unifying the cover and the door of the loader.

Claim 23. (New) The container of claim 16, which further comprises an air cleaning device.

Claim 24. (New) An apparatus for transporting a dust free article, which comprises:

a loader disposed in a low cleanliness room in a border portion between a high cleanliness room and a low cleanliness room, which transports the dust free article between an inside of a container and the high cleanliness room, which comprises:

a movable stage for mounting the container to transport the dust free article;

an opening portion through which the dust free article is transported between the high cleanliness room and the container;

a door for opening and closing the opening portion, which is provided with a gap between the door and the opening portion;

a unifying means for unifying a cover of the container and the door when the container approaches the door; and

a driving apparatus for opening and closing the opening portion of the loader and the container by moving the unified cover and door within the loader; and

wherein the container comprises:

an opening port through which the dust free article is transported between an inside of the container and the high cleanliness room;

a cover which covers the opening port of the container and is to be unified with the door of the loader and is to be moved within the loader to open and close the opening port of the container; and

a fixing means for fixing the cover to the opening port of the container when the dust free article is set in the container and is transported.

Claim 25. (New) The apparatus of claim 24, wherein the cover, unified with the door of the loader within the loader, moves vertically.

Similar to
orig. cl. 13

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Claim 26. (New) The apparatus of claim 24, wherein the driving apparatus for opening and closing the opening portion of the loader and the container by moving the unified cover and door within the loader is disposed within a space formed by a front cover and a wall for the driving apparatus.

cl. 15
Claim 27. (New) The apparatus of claim 24, wherein the loader further comprises a driving device for causing the container mounted on the stage to approach the door.

Claim 28. (New) The apparatus of claim 24, wherein the container further comprises an air-cleaning device.

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Similar to orig cl. 16
Claim 29. (New) A method for transporting a dust free article, using a loader, provided with a movable stage, a door, a unifying means and a driving means, disposed in a low cleanliness room in a border portion between a high cleanliness room having a higher air pressure than that of the low cleanliness room, and a container receiving the dust free article to be transported, which comprises:

mounting the container receiving the dust free article on the movable stage disposed on the loader;

causing the container to approach the door of the loader for opening and closing an opening portion of the loader;

unifying a cover of the container and the door of the loader;

moving the cover and the door unified within the loader to open the opening portion of the loader and the container; and

transferring the dust free article received in the container from an inside of the container to the high cleanliness room through the opening portion of the loader.